

REMARKS / DISCUSSION OF ISSUES

Claims 1-15 remain in this application, where claims 11-15 have been added and claim 1 is independent.

The Final Office Action objects to claim 7 for a certain informality. In response, claim 7 has been amended to remove the noted informality. It is respectfully submitted that the rejection of claim 7 has been overcome and an indication as such is respectfully requested.

The Final Office Action rejects claims 1 and 3-15 under 35 U.S.C. §103(a) over U.S. Patent No. 4,630,182 (Moroi) in view of U.S. Patent No. 6,784,601 (Kai), and rejects claim 2 under 35 U.S.C. §103(a) over Moroi and in Kai view of U.S. Patent No. 6,759,793 (Narita). It is respectfully submitted that claims 1-15 are patentable over Moroi, Kai and Narita for at least the following reasons.

Moroi is directed to an illuminating system for generating a high-intensity illuminating light using a lamp equipped with a cooling device. As shown in FIG 2, ducts 15 for providing air are directed toward one side of the light source 1, namely, towards the lower metal mount 1b of the light source 1. Similarly, as shown in FIG 4, an air guide pipe 132 for providing air is also directed toward one side of the light source 1. Thus, air is directed to only one side of the Moroi light source 1.

In stark contrast, the present invention as recited independent claim 1, amongst other patentable elements, requires (illustrative emphasis provided):

a cooling device, wherein the cooling device comprises at least one pair of nozzles which guide a cooling gas flow onto portions of the electrode lead-throughs of the discharge tube so that the portions are more strongly cooled than further portions of the electrode lead-throughs.

A pair of nozzles which guide a cooling gas flow, not just onto a single lead-through, but onto lead-throughs with an "s", that is onto more than one lead-through, are nowhere disclosed or suggested in Moroi. Rather, any nozzles in Moroi direct air to only ONE lead-through or to ONE side of the lamp, and NOT to BOTH lead-throughs or both sides of the of the Moroi lamp. Moroi appears to be satisfied with

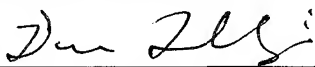
the result of directing air flow to only ONE side of the lamp, and there is simply no motivation or suggestion to direct air flow towards both lead-throughs, as recited in independent claim 1. Kai and Narita are cited to allegedly show other features and do not remedy the deficiencies in Moroi.

Accordingly, it is respectfully requested that independent claim 1 be allowed. In addition, it is respectfully submitted that claims 2-15 should also be allowed based at least on their dependence from independent claim 1, as well as their individually patentable elements. Accordingly, separate consideration of each of the dependent claims is respectfully requested.

For example, Moroi, Kai, Narita, and combinations thereof, do not disclose or suggest a discharge tube that is surrounded by two sleeve sections into which cooling gas flows can be introduced from mutually opposed directions, as recited in claim 5, as correctly noted on page 3, lines 2-6. Further, column 4, lines 59-63 of Moroi merely describe fan capacity and nozzle and has nothing to do with any discharge tube that is surrounded by two sleeve sections into which cooling gas flows can be introduced from mutually opposed directions, as recited in claim 5.

In view of the foregoing, applicants respectfully request that the Examiner withdraw the objection(s) and/or rejection(s) of record, allow all the pending claims, and find the application in condition for allowance. If any points remain in issue that may best be resolved through a personal or telephonic interview, the Examiner is respectfully requested to contact the undersigned at the telephone number listed below.

Respectfully submitted,



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